

1.821-1.825, and do not contain any new matter. Entry thereof is respectfully requested.

[0183] Degenerate oligonucleotides were designed based upon conserved sequences among spHAS (*Streptococcus pyogenes*), DG42 (*Xenopus laevis* HAS; 19) and nodC (a *Rhizobium meliloti* nodulation factor; 20) and were used for PCR amplification with D181 genomic DNA as a template. Amplification conditions were 34 cycles at: 94°C for 1 min, 44°C for 1 min, 72°C for 1.5 min followed by a final extension at 72°C for 10 min. Oligonucleotide *HADRF1*, 5'-GAY MGA YRT YTX ACX AAT TAY GCT ATH GAY TTR GG-3' (sense strand) (SEQ ID NO:11) corresponds to the sequence D²⁵⁹RCLTNYAIL (spHAS) (SEQ ID NO:12). Oligonucleotide *HACTR1*, 5'-ACG WGT WCC CCA NTC XGY ATT TTT NAD XGT RCA-3' (antisense strand) (SEQ ID NO:13) corresponds to the region C⁴⁰⁴TIKNTEWGTR (spHAS) (SEQ ID NO:14). The degeneracy of bases at some positions are represented by nomenclature adopted by the IUPAC in its codes for degenerate bases listed in Table IV.

Also, please substitute the Sequence Listing filed herewith for pages 113-128 of the Sequence Listing filed on October 25, 2002. The Sequence Listing has been amended to include SEQ ID NOS:11-14, sequences that were disclosed in the Specification (in paragraph [0183], as shown herein above) but were not identified by SEQ ID Nos. Therefore, Applicants respectfully submit

that the Sequence Listing fully complies with each and every requirement of 37 C.F.R. 1.821-1.825 and does not contain new matter.

Also submitted herewith is a copy of the Sequence Listing in computer readable form (CRF).

The computer readable form copy is as follows:

Medium Type:	Diskette 3.5 inch
Computer:	IBM AT compatible
Oper. Sys:	Windows NT
Software:	PatentIn 3.1
Date Recorded:	April 1, 2004
File Name:	Dir: A:/sequence listing

The CRF copy of the Sequence Listing is identical to the paper copy of the Sequence Listing submitted herewith and contains no new matter.